

TITLE: Bill of Materials EVAL-LT8292-BZ REVA

DATE: 10/08/2024

ITEM#	Qty	DESCRIPTION	VALUE	LOCATION	MFG	MFG_PN	DNI
1	1	PCB			Analog Devices Supplied	08_082087a	
2	1	CAP CER 1uF 50V 10% X7R 0805 AEC-Q200	1uF	C1	MURATA	GCM21BR71H105KA03L	
3	4	CAP CER 10uF 50V 10% X7R 1210	10uF	C9, C10, C11, C12	MURATA	GRM32ER71H106KA12L	
4	4	CAP CER 47uF 16V 20% X5R 1210	47uF	C13, C14, C15, C16	AVX CORPORATION	1210YD476MAT2A	
5	4	CAP ALUM POLY 180UF 50V 20% 10X12.7MM AEC-Q200 0.038 OHM 3.5A 4000H	180UF	C17, C18, C19, C20	NICHICON CORPORATION	PCR1H181MCL1GS	
6	1	CAP CER 4.7uF 10V 10% X5R 0603	4.7uF	C2	KEMET	C0603C475K8PACTU	
7	4	CAP ALUM POLY 560UF 16V 20% 8X10MM 0.014OHM 4.95A 5000H	560UF	C21, C22, C23, C24	PANASONIC	16SVPF560M	
8	1	CAP CER 10uF 25V 20% X5R 0603	10uF	C25	MURATA	GRM188R61E106MA73D	
9	1	CAP CER 2200pF 50V 10% X7R 0603	2200pF	C35	SAMSUNG	CL10B222KB8NNNC	
10	1	CAP CER 0.068UF 25V 10% X7R 0603	0.068UF	C4	KYOCERA	KGM15BR71E683KT	
11	3	CAP CER 0.1uF 25V 10% X7R 0603	0.1uF	C5, C7, C8	KEMET	C0603C104K3RACTU	
12	1	CAP CER 1uF 25V 10% X7R 0603 AEC-Q200	1uF	C6	MURATA	GCM188R71E105KA64D	
13	4	CONN-PCB, BANANA JACK, FEMALE, NON-INSULATED, THT, SWAGE, 0.218 INCHES LENGTH	575-4	J1, J2, J3, J4	KEYSTONE ELECTRONICS	575-4	
14	4	CONN-PCB THREADED BROACHING STUD 10-32 FASTENER 0.625, USE ALT_SYMBOL FOR C450D200 PAD	CKFH1032-10	J5, J6, J7, J8	CAPTIVE FASTENER	CKFH1032-10	
15	1	CONN-PCB 10POS MALE HDR UNSHROUDED DOUBLE ROW ST, 2MM PITCH, 4MM POST HEIGHT, 2.6MM SOLDER TAIL	87758-1016	JP1	MOLEX	87758-1016	
16	1	IND POWER CHOKE SHIELDED WIREWOUND 3.3UH 20% 100KHZ 47.5A 0.00088 OHM, AEC-Q200	3.3UH	L1	WURTH ELEKTRONIK	7443640330B	
17	6	TRAN N-CH POWER MOSFET 100A	BSC014N04LSI	M1, M2, M3, M4, M5, M6	INFINEON TECHNOLOGIES	BSC014N04LSI	
18	3	RES SMD 0.002 OHM 2% 3W 2512 AEC-Q200 LONG SIDE TERM	0.002	R1, R2, R3	SUSUMU CO, LTD	KRL6432E-M-R002-G-T1	
19	1	RES SMD 80.6K Ohm 1% 1/10W 0603 AEC-Q200	80.6K	R10	VISHAY	CRCW060380K6FKEA	

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20	3	RES SMD 100K Ohm 1% 1/10W 0603 AEC-Q200	100K	R11, R19, R30	PANASONIC	ERJ-3EKF1003V	
21	2	RES SMD 49.9 Ohm 1% 1/10W 0603 AEC-Q200	49.9	R12, R13	PANASONIC	ERJ-3EKF49R9V	
22	4	RES SMD 3.9 OHM 1% 1/10W 0603 AEC-Q200	3.9	R14, R16, R40, R43	VISHAY	CRCW06033R90FKEA	
23	2	RES SMD 3 OHM 1% 1/10W 0603 AEC-Q200	3	R15, R17	VISHAY	CRCW06033R00FKEA	
24	4	RES SMD 0 Ohm JUMPER 1/10W 0603 AEC-Q200	0	R18, R31, R34, R35	PANASONIC	ERJ-3GEY0R00V	
25	1	RES SMD 4.99K Ohm 1% 1/10W 0603 AEC-Q200	4.99K	R20	PANASONIC	ERJ-3EKF4991V	
26	2	RES SMD 1.2 OHM 1% 1/10W 0603 AEC-Q200	1.2	R38, R42	VISHAY	CRCW06031R20FKEA	
27	1	RES SMD 0.003 OHM 1% 3W 2512 AEC-Q200	0.003	R4	SUSUMU CO, LTD	KRL6432E-M-R003-F-T1	
28	1	RES SMD 523K OHM 1% 1/10W 0603 AEC-Q200	523K	R5	PANASONIC	ERJ3EKF5233V	
29	1	RES SMD 15K Ohm 1% 1/10W 0603	15K	R6	YAGEO	RC0603FR-0715KL	
30	1	RES SMD 110K Ohm 1% 1/10W 0603 AEC-Q200	110K	R7	PANASONIC	ERJ-3EKF1103V	
31	1	RES SMD 10K Ohm 1% 1/10W 0603 AEC-Q200	10K	R8	PANASONIC	ERJ-3EKF1002V	
32	1	RES SMD 499K Ohm 1% 1/10W 0603 AEC-Q200	499K	R9	PANASONIC	ERJ-3EKF4993V	
33	14	CONN-PCB SOLDER TERMINAL TEST POINT TURRET 0.094" MTG. HOLE PCB 0.062 INCH THK	2501-2-00-80-00- 00-07-0	TP1, TP2, TP3, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP24, TP25	MILL-MAX	2501-2-00-80-00-00-07-0	
34	2	CONN-PCB SOLDER TERMINAL TURRETS FOR CLIP LEADS	2308-2-00-80-00- 00-07-0	TP14, TP15	MILL-MAX	2308-2-00-80-00-00-07-0	
35	1	IC-ADI 60V LOW IQ FULL-FEATURED SYNCHRONOUS BUCK BOOST CONTROLLER	LT8292AFE#PBF	U1	ANALOG DEVICES	LT8292AFE#PBF	

Mechanical Parts

ITEM#	Qty	DESCRIPTION	VALUE	LOCATION	MFG	MFG_PN	DNI
36	1	SHUNT, 2POS, 2MM PITCH, BLACK			SAMTEC INC.	2SN-BK-G	
37	4	STANDOFF, BRD SPT SNAP FIT 15.9MM LENGTH			KEYSTONE	8834	
38	4	CONNECTOR RING LUG TERMINAL, 10 CRIMP, NON-INSULATED			KEYSTONE	8205	
39	4	WASHER, EXT TOOTH LOCK #10, 0.19X0.41X0.03			MCMaster-CARR	98438A230	
40	8	NUT, BRASS NARROW HEX 10-32 THREAD, 5/16 IN WIDTH			MCMaster CARR	95130A160	

The following components are part of the PCB or are NOT to be installed

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41	5	DO NOT INSTALL (C0603)		C26, C27, C28, C36, C37			DNI
42	2	DO NOT INSTALL (C0805)		C29, C30			DNI
43	2	CAP ALUM POLY 180UF 50V 20% 10X12.7MM AEC-Q200 0.038 OHM 3.5A 4000H	180UF	C31, C32	NICHICON CORPORATION	PCR1H181MCL1GS	DNI
44	2	CAP ALUM POLY 330UF 25V 20% 10X12.6MM 0.014 OHM 5000MA 5000H	330UF	C33, C34	PANASONIC	25SVPF330M	DNI
45	2	DIODE SCHOTTKY POWER RECTIFIER SMD	MBRS2040LT3G	D1, D2	ON SEMICONDUCTOR	MBRS2040LT3G	DNI
46	2	DIODE SCHOTTKY POWER RECTIFIER SMD	MBR130T3G	D3, D4	ON SEMICONDUCTOR	MBR130T3G	DNI
47	2	TRANS N-CHA ENHANCE MODE MOSFET	2N7002-7-F	Q1, Q2	DIODES INCORPORATED	2N7002-7-F	DNI
48	13	DO NOT INSTALL (R0603)		R21, R23, R24, R25, R26, R32, R33, R36, R44, R45, R46, R47, R48			DNI
49	2	RES SMD 0.002 OHM 2% 3W 2512 AEC-Q200 LONG SIDE TERM	0.002	R22, R27	SUSUMU CO, LTD	KRL6432E-M-R002-G-T1	DNI
50	2	DO NOT INSTALL (R0805)		R28, R29			DNI